Behavioural Brain Research, 36 (1990) 283–284
Elsevier

Author Index

A

Allen, Y.S., see Sinden, J.D., 229
Anisman, H., see Zacharko, R.M., 251

B

Boix, F., Fernández Teruel, A., Escorihuela, R.M. and Tobeña, A., Handling-habituation prevents the effects of diazepam and alprazolam on brain serotonin levels in rats, 209
Borbély, A.A., see Tobler, I., 73
Bowman, R.E., see Levin, E.D., 147
Brácha, V., Zhuravin, I.A. and Bures, J., The reaching reaction in the rat: a part of the digging pattern?, 53
Brito, G.N.O. and Brito, L.S.O., Septohippocampal system and the prelimbic sector of frontal cortex: a neuropsychological battery analysis in the rat, 127
Brito, L.S.O., see Brito, G.N.O., 127
Bures, J., see Brácha, V., 53

C

Clarke, P.B.S. and Fibiger, H.C., Reinforced alternation performance is impaired by muscarinic but not by nicotinic receptor blockade in rats, 203
Clarke, P.B.S., White, N.M. and Franklin, K.B.J., 6-Hydroxydopamine lesions of the olfactory tubercle do not alter (+)-amphetamine-conditioned place preference, 185
Corbett, D., Differences in sensitivity to neuroleptic blockade: medial forebrain bundle versus frontal cortex self-stimulation, 91

D

DeLuna, R., see Levin, E.D., 147
De Weerd, P., Vandenbussche, E. and Orban, G.A., Speeding up visual discrimination learning in cats by differential exposure of positive and negative stimuli, 1
Donaghy, S., see Ellard, C.G., 41

E

Eilam, D. and Golani, I., Home base behavior in amphetamine-treated tame wild rats (*Rattus norvegicus*), 161
Ellard, C.G., Stewart, D.J., Donaghy, S. and Vanderwolf, C.H., Behavioural effects of neocortical and cingulate lesions in the Mongolian gerbil, 41
Escorihuela, R.M., see Boix, F., 209

F

Fabre, J.-C., see Scardigli, P., 27
Feldon, J., see Tonkiss, J., 113
Fernández Teruel, A., see Boix, F., 209
Fibiger, H.C., see Clarke, P.B.S., 203
File, S.E. and Mabbutt, P.S., Long-lasting effects on habituation and passive avoidance performance of a period of chronic ethanol administration in the rat, 171
Franklin, K.B.J., see Clarke, P.B.S., 185

G

Gianoulakis, C., Rats exposed prenatally to alcohol exhibit impairment in spatial navigation test, 217
Giordano, M., see Zubrycki, E.M., 155
Golani, I., see Eilam, D., 161
Gray, J.A., see Sinden, J.D., 229

H

Henke, P.G., Granule cell potentials in the dentate gyrus of the hippocampus: coping behavior and stress ulcers in rats, 97
Henke, P.G., see Ray, A., 179
Hilton Jones, C. and Pinel, J.P.J., Linguistic analogies and behavior: the finite-state behavioral grammar of food-hoarding in hamsters, 189

I

Irwin, J., see Zacharko, R.M., 251

J

Jodogne, C. and Tirelli, E., Modulation of tolerance to the $GABA_A$ agonist THIP by environmental cues, 33

K

Kasian, M., see Zacharko, R.M., 251
Kurumiya, S., see Shimada, C., 105

L

Lagers-van Haselen, G.C., Van Hof, M.W. and Reuter, J.H., Visual discrimination of discontinuous figures in the rabbit, 21
LaLonde, G., see Zacharko, R.M., 251

Laping, N.J. and Ramirez, V.D., Yawning behavior in male rats is associated with decreases in in vivo DOPAC efflux from the caudate nucleus, 65
Levin, E.D., DeLuna, R., Uemura, E. and Bowman, R.E., Long-term effects of developmental halothane exposure on radial arm maze performance in rats, 147

M

Mabbutt, P.S., see File, S.E., 171
MacNeil, G., see Zacharko, R.M., 251
Mirmiran, M., see Scholtens, J., 199

N

Noguchi, Y., see Shimada, C., 105

O

Orban, G.A., see De Weerd, P., 1

P

Paylor, R. and Rudy, J.W., Cholinergic receptor blockade can impair the rat's performance on both the place learning and cued versions of the Morris water task: the role of age and pool wall brightness, 79
Pinel, J.P.J., see Hilton Jones, C., 189

R

Ramirez, V.D., see Laping, N.J., 65
Rawlins, J.N.P., see Sinden, J.D., 229
Rawlins, J.N.P., see Tonkiss, J., 113
Ray, A. and Henke, P.G., Enkephalin-dopamine interactions in the central amygdalar nucleus during gastric stress ulcer formation in rats, 179
Reuter, J.H., see Lagers-van Haselen, G.C., 21
Roozen, M., see Scholtens, J., 199
Rudy, J.W., see Paylor, R., 79

S

Sanberg, P.R., see Zubrycki, E.M., 155
Scardigli, P., Fabre, J.-C. and Thinus-Blanc, C., The effects of superior colliculus lesions on reactions to novelty in the hamster, 27
Scholtens, J., Roozen, M., Mirmiran, M. and Van de Poll, N.E., Role of noradrenaline in behavioral changes defeat in male and female rats, 199
Shimada, C., Kurumiya, S., Noguchi, Y. and Umemoto, M., The effect of neonatal exposure to chronic footshock on pain-responsiveness and sensitivity to morphine after maturation in the rat, 105
Sinden, J.D., Allen, Y.S., Rawlins, J.N.P. and Gray, J.A., The effects of ibotenic acid lesions of the nucleus basalis and cholinergic-rich neural transplants on win-stay/lose-shift, and win-shift/lose-stay performance in the rat, 229
Stewart, D.J., see Ellard, C.G., 41

T

Thinus-Blanc, C., see Scardigli, P., 27
Tirelli, E., see Jodogne, C., 33
Tobeña, A., see Boix, F., 209
Tobler, I. and Borbély, A.A., The effect of 3-h and 6-h sleep deprivation on sleep and EEG spectra of the rat, 73
Tonkiss, J., Feldon, J. and Rawlins, J.N.P., Section of the descending columns of the fornix procedures delay- and interference-dependent working memory deficits, 113

U

Uemura, E., see Levin, E.D., 147
Umemoto, M., see Shimada, C., 105

V

Vandenbussche, E., see De Weerd, P., 1
Van de Poll, N.E., see Scholtens, J., 199
Vanderwolf, C.H., see Ellard, C.G., 41
Van Hof, M.W., see Lagers-van Haselen, G.C., 21

W

White, N.M., see Clarke, P.B.S., 185

Z

Zablocka, T. and Zernicki, B., Partition between stimuli slows down greatly discrimination learning in binocularly deprived cats, 13
Zacharko, R.M., Kasian, M., Irwin, J., Zalcman, S., LaLonde, G., MacNeil, G. and Anisman, H., Behavioral characterization of intracranial self-stimulation from mesolimbic, mesocortical, nigrostriatal, hypothalamic and extra-hypothalamic sites in the non-inbred CD-1 mouse strain, 251
Zalcman, S., see Zacharko, R.M., 251
Zernicki, B., see Zablocka, T., 13
Zhuravin, I.A., see Brácha, V., 53
Zubrycki, E.M., Giordano, M. and Sanberg, P.R., The effects of cocaine on multivariate locomotor behavior and defecation, 155

Behavioural Brain Research, 36 (1990) 285–290
Elsevier

Key Word Index

A

Activity print
cocaine; open-field behavior; locomotor behavior; defecation; digiscan activity, 155

Adult rat
spatial navigation; prenatal alcohol; hippocampal dysfunction; juvenile rat, 217

Age
place learning; Morris water task; receptor blockade, brightness; rat, 79

Aggression
noradrenaline; clonidine; resident-intruder paradigm; sex difference; rat, 199

Alcohol
habituation; exploration; behavioural inhibition; passive avoidance, 171

Alprazolam
5-hydroxytryptamine; 5-hydroxyindoleacetic acid; diazepam; handling-habituation; rat, 209

Alternation
fornix; descending column; interference; retention; working memory; rat, 113

(+)-Amphetamine
dopamine; olfactory tubercle; nucleus accumbens; mesolimbic; reward; conditioned place preference, 185

exploration; open field; stopping; spatial memory; locomotion; grooming; cognitive map, 161

Apomorphine
caudate nucleus; 3,4-dihydroxyphenylacetic acid; penile erection; prolactin; push–pull cannula; yawning, 65

Associate learning process
tolerance; THIP; $GABA_A$ agonist; sedation; catatonia; environmental cue, 33

B

Behavioral teratology
halothane; radial-arm maze; memory; rat, 147

Behavioral grammar
food-hoarding; sequential analysis; stereotypy; ventral perspective; hamster, 189

Behavioural inhibition
alcohol; habituation; exploration; passive avoidance, 171

Binocular deprivation
visual discrimination learning; visual discrimination apparatus; cat, 13

Brightness
place learning; Morris water task; receptor blockade; age; rat, 79

C

Cat
binocular deprivation; visual discrimination learning; visual discrimination apparatus, 13

training; threshold; orientation discrimination; cortical lesion; illusory contour, 1

Catatonia
tolerance; THIP; $GABA_A$ agonist; sedation; environmental cue; associate learning process, 33

Caudate nucleus
apomorphine; 3,4-dihydroxyphenylacetic acid; penile erection; prolactin; push–pull cannula; yawning, 65

Central amygdala
enkephalin; dopamine; stress ulcer, 179

Cholinergic
nicotinic; muscarinic; receptor; memory; rat, 203

Cholinergic system
win-shift; win-stay; operant; memory; neural transplant; rat, 229

Cingulate cortex
frontal cortex; ventral marking; social behaviour; foot-stomping; type I behaviour; type II behaviour; gerbil, 41

Clonidine
noradrenaline; aggression; resident-intruder paradigm; sex difference; rat, 199

Cocaine
open-field behavior; locomotor behavior; activity print; defecation; digiscan activity, 155

Cognitive map
exploration; (+)-amphetamine; open field; stopping; spatial memory; locomotion; grooming, 161

Conditioned place preference
dopamine; olfactory tubercle; nucleus accumbens; mesolimbic; (+)-amphetamine; reward, 185

Cortical lesion
training; threshold; orientation discrimination; illusory contour; cat, 1

D

Defecation
cocaine; open-field behavior; locomotor behavior; activity print; digiscan activity, 155

Dentate gyrus
hippocampus; entorhinal cortex; stress; ulcer; helplessness, 97

Descending column
fornix; alternation; interference; retention; working memory; rat, 113

Diazepam
5-hydroxytryptamine; 5-hydroxyindoleacetic acid; alprazolam; handling-habituation; rat, 209

Digging
motor learning; lateralized reaching; innate movement pattern; videorecording; rat, 53

Digiscan activity
cocaine; open-field behavior; locomotor behavior; activity print; defecation, 155

3,4-dihydroxyphenylacetic acid
apomorphine; caudate nucleus; penile erection; prolactin; push–pull cannula; yawning, 65

Discontinuity of figure
visual discrimination; rabbit, 21

Dopamine
self-stimulation; prefrontal cortex; medial forebrain bundle, 91

central amygdala; enkephalin; stress ulcer, 179

olfactory tubercle; nucleus accumbens; mesolimbic; (+)-amphetamine; reward; conditioned place preference, 185

mesolimbic; mesocortical; nigrostriatal; histofluorescence; intracranial self-stimulation; mouse, 251

E

Electroencephalographic spectrum
sleep deprivation; rat, 73

Enkephalin
central amygdala; dopamine; stress ulcer, 179

Entorhinal cortex
hippocampus; dentate gyrus; stress; ulcer; helplessness, 97

Environmental cue
tolerance; THIP; $GABA_A$ agonist; sedation; catatonia; associate learning process, 33

Exploration
superior colliculus; salience of stimulus; locomotor hyperactivity; video-actographic system; hamster, 27

(+)-amphetamine; open field; stopping; spatial memory; locomotion; grooming; cognitive map, 161

alcohol; habituation; behavioural inhibition; passive avoidance, 171

F

Food-hoarding
behavioral grammar; sequential analysis; stereotypy; ventral perspective; hamster, 189

Foot-stomping
frontal cortex; cingulate cortex; ventral marking; social behaviour; type I behaviour; type II behaviour; gerbil, 41

Fornix
descending column; alternation; interference; retention; working memory; rat, 113

Frontal cortex
cingulate cortex; ventral marking; social behaviour; foot-stomping; type I behaviour; type II behaviour; gerbil, 41

septum; prelimbic cortex; neuropsychological battery; memory; hyperactivity, 127

G

$GABA_A$ agonist
tolerance; THIP; sedation; catatonia; environmental cue; associate learning process, 33

Gerbil
frontal cortex; cingulate cortex; ventral marking; social behaviour; foot-stomping; type I behaviour; type II behaviour, 41

Grooming
exploration; (+)-amphetamine; open field; stopping; spatial memory; locomotion; cognitive map, 161

H

Habituation
alcohol; exploration; behavioural inhibition; passive avoidance, 171

Halothane
radial-arm maze; behavioral teratology; memory; rat, 147

Hamster
exploration; superior colliculus; salience of stimulus; locomotor hyperactivity; video-actographic system, 27

food-hoarding; behavioral grammar; sequential analysis; stereotypy; ventral perspective, 189

Handling-habituation
5-hydroxytryptamine; 5-hydroxyindoleacetic acid; diazepam; alprazolam; rat, 209

Helplessness
hippocampus; dentate gyrus; entorhinal cortex; stress; ulcer, 97

Hippocampal dysfunction
spatial navigation; prenatal alcohol; juvenile rat; adult rat, 217

Hippocampus
dentate gyrus; entorhinal cortex; stress; ulcer; helplessness, 97

Histofluorescence
mesolimbic; mesocortical; nigrostriatal; dopamine; intracranial self-stimulation; mouse, 251

Hot-plate
stress-induced analgesia; preweanling period; opiate receptor; morphine, 105

5-Hydroxyindoleacetic acid
5-hydroxytryptamine; diazepam; alprazolam; handling-habituation; rat, 209

5-Hydroxytryptamine
5-hydroxyindoleacetic acid; diazepam; alprazolam; handling-habituation; rat, 209

Hyperactivity
septum; prelimbic cortex frontal cortex; neuropsychological battery; memory, 127

I

Illusory contour
training; threshold; orientation discrimination; cortical lesion; cat, 1

Innate movement pattern
motor learning; lateralized reaching; digging; videorecording; rat, 53

Interference
fornix; descending column; alternation; retention; working memory; rat, 113

Intracranial self-stimulation
mesolimbic; mesocortical; nigrostriatal; dopamine; histofluorescence; mouse, 251

J

Juvenile rat
spatial navigation; prenatal alcohol; hippocampal dysfunction; adult rat, 217

L

Lateralized reaching
motor learning; digging; innate movement pattern; videorecording; rat, 53

Locomotion
exploration; (+)-amphetamine; open field; stopping; spatial memory; grooming; cognitive map, 161

Locomotor behavior
cocaine; open-field behavior; activity print; defecation; digiscan activity, 155

Locomotor hyperactivity
exploration; superior colliculus; salience of stimulus; video-actographic system; hamster, 27

M

Medial forebrain bundle
self-stimulation; prefrontal cortex; dopamine, 91

Memory
septum; prelimbic cortex; frontal cortex; neuropsychological battery; hyperactivity, 127

halothane; radial-arm maze; behavioral teratology; rat, 147

nicotinic; muscarinic; cholinergic; receptor; rat, 203

win-shift; win-stay; operant; cholinergic system; neural transplant; rat, 229

Mesocortical
mesolimbic; nigrostriatal; dopamine; histofluorescence; intracranial self-stimulation; mouse, 251

Mesolimbic
dopamine; olfactory tubercle; nucleus accumbens; (+)-amphetamine; reward; conditioned place preference, 185

mesocortical; nigrostriatal; dopamine; histofluorescence; intracranial self-stimulation; mouse, 251

Morphine
stress-induced analgesia; preweanling period; hot-plate; opiate receptor, 105

Morris water task
place learning; receptor blockade; age; brightness; rat, 79

Motor learning
lateralized reaching; digging; innate movement pattern; videorecording; rat, 53

Mouse
mesolimbic; mesocortical; nigrostriatal; dopamine; histofluorescence; intracranial self-stimulation, 251

Muscarinic
nicotinic; cholinergic; receptor; memory; rat, 203

N

Neural transplant
win-shift; win-stay; operant; memory; cholinergic system; rat, 229

Neuropsychological battery
septum; prelimbic cortex; frontal cortex; memory; hyperactivity, 127

Nicotinic
muscarinic; cholinergic; receptor; memory; rat, 203

Nigrostriatal
mesolimbic; mesocortical; dopamine; histofluorescence; intracranial self-stimulation; mouse, 251

Noradrenaline
clonidine; aggression; resident-intruder paradigm; sex difference; rat, 199

Nucleus accumbens
dopamine; olfactory tubercle; mesolimbic; (+)-amphetamine; reward; conditioned place preference, 185

O

Olfactory tubercle
dopamine; nucleus accumbens; mesolimbic; (+)-amphetamine; reward; conditioned place preference, 185

Open field
exploration; (+)-amphetamine; stopping; spatial memory; locomotion; grooming; cognitive map, 161

Open-field behavior
cocaine; locomotor behavior; activity print; defecation; digiscan activity, 155

Operant
win-shift; win-stay; memory; cholinergic system; neural transplant; rat, 229

Opiate receptor
stress-induced analgesia; preweanling period; hot-plate; morphine, 105

Orientation discrimination
training; threshold; cortical lesion; illusory contour; cat, 1

P

Passive avoidance
alcohol; habituation; exploration; behavioural inhibition, 171

Penile erection
apomorphine; caudate nucleus; 3,4-dihydroxyphenylacetic acid; prolactin; push–pull cannula; yawning, 65

Place learning
Morris water task; receptor blockade; age; brightness; rat, 79

Prefrontal cortex
self-stimulation; medial forebrain bundle; dopamine, 91

Prelimbic cortex
septum; frontal cortex; neuropsychological battery; memory; hyperactivity, 127

Prenatal alcohol
spatial navigation; hippocampal dysfunction; juvenile rat; adult rat, 217

Preweaning period
stress-induced analgesia; hot-plate; opiate receptor; morphine, 105

Prolactin
apomorphine; caudate nucleus; 3,4-dihydroxyphenylacetic acid; penile erection; push–pull cannula; yawning, 65

push–pull cannula
apomorphine; caudate nucleus; 3,4-dihydroxyphenylacetic acid; penile erection; prolactin; yawning, 65

R

Rabbit
visual discrimination; discontinuity of figure, 21

Radial-arm maze
halothane; behavioral teratology; memory; rat, 147

Rat
motor learning; lateralized reaching; digging; innate movement pattern; videorecording, 53

sleep deprivation; electroencephalographic spectrum, 73

place learning; Morris water task; receptor blockade; age; brightness, 79

fornix; descending column; alternation; interference; retention; working memory, 113

halothane; radial-arm maze; behavioral teratology; memory, 147

noradrenaline; clonidine; aggression; resident-intruder paradigm; sex difference, 199

nicotinic; muscarinic; cholinergic; receptor; memory, 203

5-hydroxytryptamine; 5-hydroxyindoleacetic acid; diazepam; alprazolam; handling-habituation, 209

win-shift; win-stay; operant; memory; cholinergic system; neural transplant, 229

Receptor
nicotinic; muscarinic; cholinergic; memory; rat, 203

Receptor blockade
place learning; Morris water task; age; brightness; rat, 79

Resident-intruder paradigm
noradrenaline; clonidine; aggression; sex difference; rat, 199

Retention
fornix; descending column; alternation; interference; working memory; rat, 113

Reward
dopamine; olfactory tubercle; nucleus accumbens; mesolimbic; (+)-amphetamine; conditioned place preference, 185

Spatial memory
exploration; (+)-amphetamine; open field; stopping; locomotion; grooming; cognitive map, 161

Spatial navigation
prenatal alcohol; hippocampal dysfunction; juvenile rat; adult rat, 217

Stereotypy
food-hoarding; behavioral grammar; sequential analysis; ventral perspective; hamster, 189

Stopping
exploration; (+)-amphetamine; open field; spatial memory; locomotion; grooming; cognitive map, 161

Stress
hippocampus; dentate gyrus; entorhinal cortex; ulcer; helplessness, 97

Stress-induced analgesia
preweanling period; hot-plate; opiate receptor; morphine, 105

Stress ulcer
central amygdala; enkephalin; dopamine, 179

Superior colliculus
exploration; salience of stimulus; locomotor hyperactivity; video-actographic system; hamster, 27

S

Salience of stimulus
exploration; superior colliculus; locomotor hyperactivity; video-actographic system; hamster, 27

Sedation
tolerance; THIP; $GABA_A$ agonist; catatonia; environmental cue; associate learning process, 33

Self-stimulation
prefrontal cortex; medial forebrain bundle; dopamine, 91

Septum
prelimbic cortex; frontal cortex; neuropsychological battery; memory; hyperactivity, 127

Sequential analysis
food-hoarding; behavioral grammar; stereotypy; ventral perspective; hamster, 189

Sex difference
noradrenaline; clonidine; aggression; resident-intruder paradigm; rat, 199

Sleep deprivation
electroencephalographic spectrum; rat, 73

Social behaviour
frontal cortex; cingulate cortex; ventral marking; foot-stomping; type I behaviour; type II behaviour; gerbil, 41

T

THIP
tolerance; $GABA_A$ agonist; sedation; catatonia; environmental cue; associate learning process, 33

Threshold
training; orientation discrimination; cortical lesion; illusory contour; cat, 1

Tolerance
THIP; $GABA_A$ agonist; sedation; catatonia; environmental cue; associate learning process, 33

Training
threshold; orientation discrimination; cortical lesion; illusory contour; cat, 1

Type I behaviour
frontal cortex; cingulate cortex; ventral marking; social behaviour; foot-stomping; type II behaviour; gerbil, 41

Type II behaviour
frontal cortex; cingulate cortex; ventral marking; social behaviour; foot-stomping; type I behaviour; gerbil, 41

U

Ulcer
hippocampus; dentate gyrus; entorhinal cortex; stress; helplessness, 97

V

Ventral marking
frontal cortex; cingulate cortex; social behaviour; foot-stomping; type I behaviour; type II behaviour; gerbil, 41

Ventral perspective
food-hoarding; behavioral grammar; sequential analysis; stereotypy; hamster, 189

Video-actographic system
exploration; superior colliculus; salience of stimulus; locomotor hyperactivity; hamster, 27

Videorecording
motor learning; lateralized reaching; digging; innate movement pattern; rat, 53

Visual discrimination
discontinuity of figure; rabbit, 21

Visual discrimination apparatus
binocular deprivation; visual discrimination learning; cat, 13

Visual discrimination learning
binocular deprivation; visual discrimination apparatus; cat, 13

W

Win-shift
win-stay; operant; memory; cholinergic system; neural transplant; rat, 229

Win-stay
win-shift; operant; memory; cholinergic system; neural transplant; rat, 229

Working memory
fornix; descending column; alternation; interference; retention; rat, 113

Y

Yawning
apomorphine; caudate nucleus; 3,4-dihydroxyphenylacetic acid; penile erection; prolactin; push–pull cannula, 65